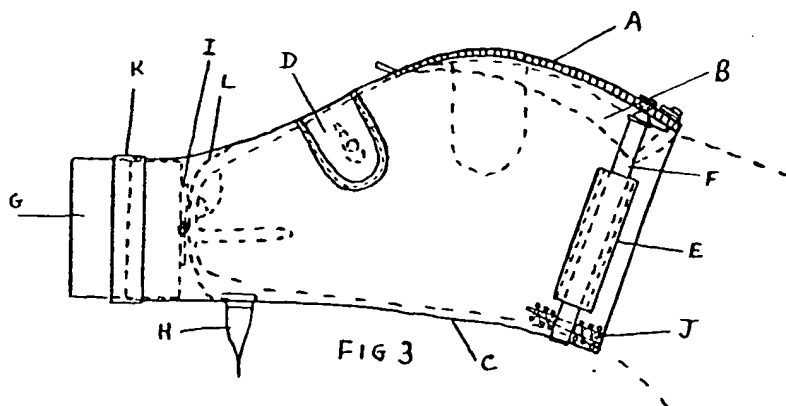
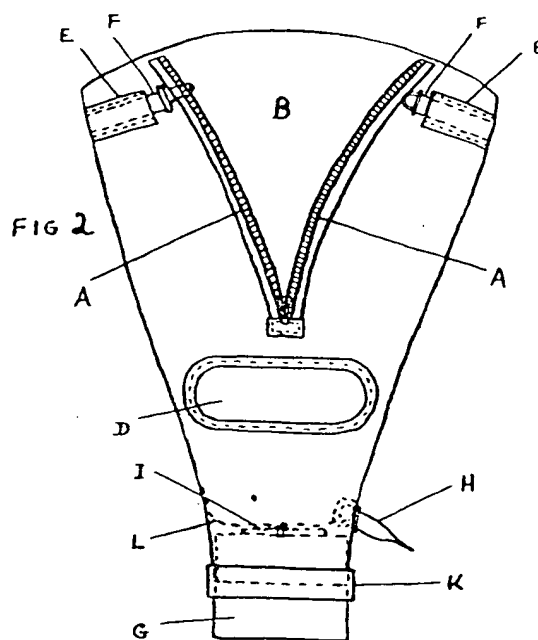
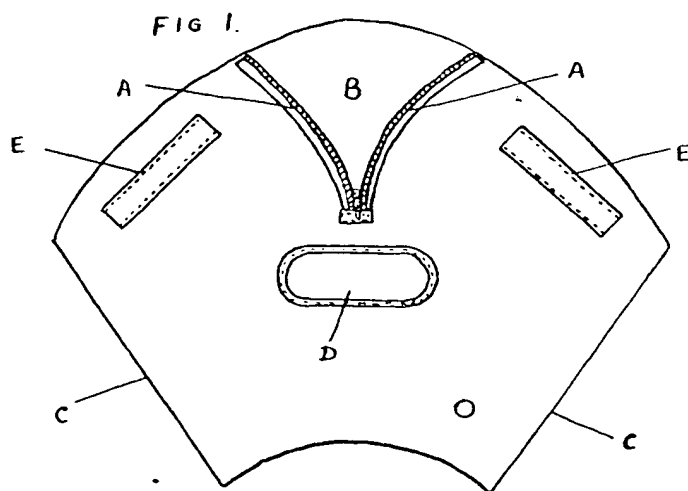


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531,805 COMPLETE SPECIFICATION

SHEET 1



[This Drawing is a reproduction of the Original on a reduced scale.]

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Application Date: Aug. 2, 1939. No. 22460/39.

531.805

Complete Specification Left: Nov. 27, 1939.

Complete Specification Accepted: Jan. 10, 1941.

## PROVISIONAL SPECIFICATION

## Gas Masks for Dogs and other Animals

I, REGINALD PERCY HOWES, British Subject, "Rathcline", Oakleigh Gardens, Whetstone, London, N.20, do hereby declare the nature of this invention to be as follows:—

The invention relates to gas masks for animals primary for dogs and horses. Owing to the great variation in sizes and shapes of dogs' heads it is extremely difficult to have a mask to fit over the face only of a dog. Take for instance a bulldog with its wide flat face and a greyhound with its long pointed face, two extremes. My invention overcomes this difficulty of fitting and I have designed a mask in hood form which covers the head and ears entirely. The hood may be made from oilskin fabric, rubberised fabric or the like or from sheet rubber. The hood is cut from a sheet of flexible fabric rubber or the like and joined preferably with one seam to minimize the risk of leakage. The dogs hoods are of course cut differently to the horses hoods and the particulars of the horses hoods are given later. The particulars of the dogs hoods are as follows:—When the hood is joined with one seam it forms a tapered like funnel and to obtain the shape of the head a zip fastener or lacing is used which is fitted on the top of the hood between the ears extending backwards to the top of the neck. More than one lot of zips or lacings can be resorted to, where necessary, to obtain a good and close fit round the neck of the animal. The zip fasteners are preferred not only for quickness in fitting, but awkward curves, corners or shapes can be easily negotiated. Gussets which are sewn in must be avoided as much as possible owing to risk of leakage, and the zips or lacings are so arranged that no sewn in gussets are necessary in the hoods. The hoods are fitted with visors, either of the flexible type sewn in or shaped metal or similar material rimmed windows may be used. An exhaler valve is fitted and a filtering container used. An inlet valve is mounted on top of the filtering con-

tainer or may be fitted in the air inlet tube, if one is fitted, and this stops the used air and moisture from entering and damaging the contents of the container. The dogs hoods are made in several sizes and with a restricted number of sizes it is possible to fit every size and type of dog.

In the horses model the hoods are cut to the shape of the horses head and sufficient fullness of material is allowed at the neck opening, the same as in the dogs hood, to allow the hood to pass over the head with ease. This fullness is taken up with the aid of the zip or lacing and the fold over of the material lies flat on the animals neck. The main zip or lacing on the horses model is fitted under the neck and extends from between the two jawbones backwards to the bottom of the neck. When the zip is closed or the lacings tightened up the edges at the neck fit closely to the animal and additional lacings can be fitted to give extra adjustment which can be opened out or tightened up as desired to obtain a nice close fit round the neck. An adjustable elastic or similar band is fitted over the edges of the hood at neck to give additional gastight fitting. This applies to the dogs, horses and other animal's hoods. The horses hoods can be made in several sizes. A muzzle made of strapping or netting may be used to fit over the mouth of the animal, which can be fixed inside the bottom of the hood, to stop the nose of the animal from entering too far into the hood and pressing against the top of the container or top of the mouthpiece. The hoods may be moulded from rubber or the like with the necessary gussets vulcanised or stuck on to allow the hoods to be slipped over the heads of the animals with ease. The hoods may be fitted with pockets to take the ears of the animals. In the case of hoods for cows provision may be made for the horns.

Dated this 2nd day of August, 1939.

R. P. HOWES.

bones backwards to the bottom of the neck. When the zip is closed or the lacings tightened up, the edges at the neck fit closely to the animal and additional 5 lacings can be fitted to give extra adjustment which can be opened out or tightened up as desired to obtain a nice close fit round the neck. An adjustable elastic or similar band is fitted over the edges of 10 the hood at the neck to give additional gas-tight fitting. This applies to the dogs, horses and other animals hoods. The horses hoods can be made in several sizes. A muzzle made of strapping or netting 15 may be used to fit over the mouth of the animal which can be fixed inside the bottom of the hood to stop the nose of the animal from entering too far into the hood and pressing against the top of the con- 20 tainer or the top of the mouthpiece. The hoods may be moulded from rubber or the like with the necessary gussets vulcanised or stuck on to allow the hoods to be slipped over the heads of the animals with ease. 25 The hoods may be fitted with pockets to take the ears of the animal where necessary. In the case of hoods for cows provision may be made for the horns.

Figure 4 shows the cut-out shape of half 30 of the horses hoods M. The horses masks or hoods are cut in two halves and are joined together with two seams at edges O, one seam from top of neck, over the head and down to the top of the nose. The 35 other seam from the bottom of mouth under the throat to the bottom of the neck. The hoods may be cut in one piece only, but a great waste of material would result. The extra material forming the 40 gusset or flare portion R is allowed in the cutting to give fullness under neck to allow the hood or mask to be slipped easily over the horses head. The drawing also shows the position where the zip Q 45 is shown.

Figure 5 shows the horses hoods or masks sewn together at edges O and the gusset or flare portion R folded in when the zip Q is closed up. Lacings, buckles, 50 or like may be used in place of the zips, but zips are preferred for quickness. Other items shown in the drawings are, the eye-

piece S, elastic or the like neck bands T, slots U for neck bands, container V, ex- 55 haler valve W, inlet valve X, inside on top of container to stop the used air and moisture from entering the container. Additional lacings Y for any adjustments necessary for a tight fitting round the neck, muzzle Z to stop the nose from press- 60 ing on top of the container or mouth-piece.

A separate container may be fitted and in this case a suitable mounting may be fitted to the hood or mask to take a flexible 65 tube to the separate filtering container.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim 70 is:—

1. Respirators, gas-masks or the like of the hood type for animals made of flexible elastic or non-elastic material cut 75 from the sheet or from moulded rubber or the like, which are slipped over the heads of animals, and are fitted with zips, lacings, buckles or the like to gather or draw in the fullness or flared portion of the neck so as to fit closely round the neck 80 of the animal and fitted with elastic neck bands for additional tightness as substantially described and illustrated in the accompanying drawings.

2. Respirators, gas-masks, or the like 85 for animals according to Claim 1, in which one end is adapted to receive a filtering container or suitable fitting to take a flexible tube to a separate filtering container. 90

3. Respirators, gas-masks or the like for animals according to Claim 1 and 2, having an inlet valve mounted on the top of the container of the disc type to stop 95 the breath or moisture from the breath from entering or damaging the contents of the container.

4. Respirators, gas-masks or the like for animals as claimed in the preceding Claims having visors sewn or sprung in 100 the facepieces and having exhaler valves.

Dated the 27th day of November, 1939.  
R. P. HOWES.